

Tellabs® Global Services for Mobile IP

Helping carriers converge network infrastructure, integrate mobile IP and support advanced services.

Overview

Increasingly, mobile Internet users want their wireless broadband experience to match or exceed what they experience in the wired world. To offer high performance mobile broadband services like WiMAX and LTE, service providers can deploy Mobile IP as a critical component in next-generation wireless networks.

As your trusted partner in next-generation networking, Tellabs is a leader in high speed, high quality Mobile IP access. We provide products and services that combine the superior performance of next-generation mobile technologies with the power of IP networking.

As you move beyond 3G technologies, planning for the increased demand of data and advanced business services is essential to growing your business. But the process requires substantial capital

expenditure and investment in skilled human resources; usually well in advance of expected revenues. Absorbing these costs, especially while focusing on reducing operating expenses, is daunting. You need solutions to manage evolving Mobile IP technologies and increasing subscriber demands while accelerating the return on your investments. Choosing the proper network architecture and technology is critical to your future success.

Tellabs' Mobile IP services portfolio is designed to help you design, implement and optimize your Mobile IP network to reduce costs and deliver the most advanced broadband network experience. Tellabs Global Services helps you leverage your Mobile IP infrastructure with a wide range of services for Mobile IP networks encompassing a breadth of applications such as WiMAX, IP Offload, and LTE.



Optimize your network to prepare for the mobile Internet

Tellabs Global Services - The Right Partner for Mobile IP Service Solutions

Tellabs Global Services is the right partner for Mobile IP service solutions. We bring a wealth of IP experience to your team and keep you at the cutting edge of performance and reliability – while minimizing costs. Our advanced service solutions are at the forefront of communications networks worldwide, backed by decades of innovation and expertise.

We go beyond offering generic off-the-shelf service solutions. Instead, a careful analysis of your network and business environment helps us deliver the right solutions to solve your unique challenges.

We assess your network to see if the existing infrastructure and operational environments can support the proposed system upgrades or components. Then, a comprehensive architecture and design is developed to meet project objectives.



Meet project deadlines on time and on budget

Tellabs aligns project activities to enable the installation, configuration and integration of new components without disrupting your existing network. After the deployment, we continue to focus on minimizing operational costs while maintaining the highest levels of service quality.

Throughout our engagement, our focus is helping you meet your objectives, including:

- *Mitigate risk* – Using our field proven methodologies, we identify and proactively plan to avoid risks to your project schedule and budget
- *Minimize cost of ownership* – Maximizing returns with minimal investment
- *Optimize performance* – Identifying performance enhancements within network design, implementation and operations support
- *Accelerate time-to-market* – Bypassing the learning curve, we speed your ability to generate revenue
- *Sustain competitive advantage* – Building a foundation for daily operations that deliver superior performance and intelligent growth

Program Management

The Tellabs' program management team is dedicated to ensuring that all implementation projects run smoothly and on time. As with any large scale or complex network change, the transition from one network technology to another requires skilled, experienced program and project management.

Your program manager serves as the focal point for any project, issue, or question – expertly resolving conflicts and identifying issues before they become problems. He or she facilitates regular meetings between your team and the Tellabs team to deliver seamless communications throughout the project.

Key Deliverables

- Single point of contact drives implementation from the planning stage through to the full project completion
- Develop and maintain a project plan, track updates, timelines and completions
- Schedule and participate in regular status meetings with key stakeholders
- Produce status reports containing project plan and summary, red flag items, integration status and schedules
- Plan and manage all activities, resources, risks and costs associated with delivering the proposed solution
- Coordinate activities with RAN vendor as required during design and integration activities
- Manage issues to resolution and change management throughout duration of the project

Key Benefits

- *Speed Time-To-Market* – Best-practice project management methodologies maximize resources and minimize unproductive activities
- *Reduce Costs* – Streamlined project planning, tracking and reporting follow strict adherence to timelines and milestone achievement
- *Improve Reliability* – Implement a network that provides the required end-to-end functionality on a consistent basis
- *Mitigate risk* – Implement techniques and methods to identify and proactively plan to avoid, reduce and control risks

Network Architecture

Tellabs' expert network architecture team provides theoretical design knowledge and practical implementation experience. Together, we deliver a high-level network design and a plan for the implementation of your Evolved Packet Core. Leveraging the Tellabs® SmartCore™ 9100 Platform, our experts work with your team to create an effective architecture.

We also provide related recommendations to create a secure, scalable and reliable, network infrastructure. Experienced senior consulting architects and engineers assess network status to identify system performance, security, and application requirements. Key Performance Indicators (KPIs) and other elements necessary to build a solid foundation for the network implementation are specified.



Plan your network quickly and cost-effectively

Key Deliverables

- Clear and comprehensive picture of network topology
- IP network modeling and design
- High-level project outline
- High-level network design including overall topology, network diagrams and multi-vendor integration including project recommendations
- Management reporting packages

Key Benefits

- *Accelerate time-to-market* – Tellabs' architecture team has the experience and expertise necessary to efficiently transform your vision into a reality
- *Maximize resource utilization* – Our experts develop an architecture that ensures optimal use and management of your network resources
- *Improve return on investment* – The right network architecture plus expert engineering enables faster deployment to maximize profits from investments

Deployment Services

Once your deployment schedules are determined, strict adherence to these objectives is mission critical. Whenever you add or modify network components, Mobile IP common oversights and increased learning curves can extend your time and budget.

By using proven methodologies, Mobile IP network deployment technology expertise, Tellabs helps ensure that your objectives are met within specified time and cost constraints. Tellabs' complete range of deployment services includes installation, configuration and testing to provide a smooth implementation from equipment order to operational readiness.

Key Deliverables

- Engineer, Furnish, Install (EF&I)
- Review of network configuration and design
- Documented Method of Procedure (MOP)
- Management of ordering and delivery process
- Equipment inventory and staging
- Pre-installation site surveys available
- On-site physical installation
- Node-level acceptance testing

Key Benefits

- *Speed Time-To-Market* – Meet critical deployment schedules and bypass the learning curve of new network complexities
- *Reduce Costs* – Immediate access to skilled resources, best practices and the latest technologies without additional overhead
- *Mitigate Risk* – Deliver a seamless network deployment with minimal impact to existing subscriber base

Commissioning

Smooth commissioning of Tellabs SmartCore 9100 elements requires a combination of remote and onsite technical engineering support. The Commissioning service provides an experienced commissioning engineer to ensure the rapid deployment and turn-up of Tellabs SmartCore elements at your location. The Tellabs commissioning engineer also facilitates the introduction of Tellabs SmartCore with your local engineering staff.

Typical deliverables include

- Equipment power-up and systems check of Tellabs SmartCore 9100 platform and element manager
- Commissioning support by Tellabs Professional Services technical lead
- Enablement of physical connections and turn-up of Layer 2 and Layer 3 logical connections
- Network connectivity integration and testing
- Equipment initial setup, software upgrade and validation
- System license validation
- Confirm equipment inventory and registration with Tellabs support
- Knowledge transfer training of local data center technical staff
- Configuration and validation of Tellabs SmartCore 9100 platform
- Integration of Tellabs SmartCore 9100 remote management capabilities
- Installation of Tellabs® SmartCore™ 9190 element manager

Key Benefits

- *Speed Time-To-Market* – Ensure rapid deployment with an experienced commissioning engineer to introduce the Tellabs SmartCore 9100 platform to the customer's local engineering staff
- *Reduce Costs* – Remove problems and churn by providing technical engineering support at the installation site



Rely on our expertise for a fully tested and operational network

Integration

Rapid network element and management system integration is essential to generating revenue from your investment. Integration Services focus on the Tellabs SmartCore 9100 node integration into your network.

Leveraging the detailed design documentation and implementation plan developed during the design phase, Tellabs delivers a fully connected, operational and tested network.

Typical deliverables include

- Coordination with relevant integration teams to turn-up network service for the integration parameters as defined in EDP
- Extended and non-extended business hour support for initial call testing
- Network integration resources for work completed within extended business hours
- Network commissioning resources for work completed within extended business hours
- Execution of Field Integration Test Plan with documented results
- System sign-off

Reduce Operation Costs – Free up operations personnel to focus on other tasks

Maximize Revenues – Reduce the risk of errors, omissions and delays

Support Agreements

Tellabs offers a portfolio of Support Agreements to keep your network running efficiently. Each Tellabs Support Agreement consists of a set of service elements to address your specific requirements. Our Support Agreements help ensure optimal performance from your Tellabs product solutions — from the time of purchase throughout the lifecycle of your network.

Key Deliverables

- *Technical support services* – Remote, online and on-site technical support
- *Hardware maintenance services* – Hardware repair, advance replacement, and spares management
- *Software maintenance services*
- *Proactive services* – Software planning, software update installation, system audits

Key Benefits

- *Speed Time-To-Market* – Prevent and reduce potential technical issues
- *Reduce Costs* – Lower, more predictable total cost of ownership
- *Optimize Performance* – Identify root cause when troubles occur and other potential issues that could hinder your network's performance
- *Improve Reliability* – Provide network reliability by maximizing network uptime, availability, and performance
- *Mitigate Risk* – Simplify support processes and support delivery



Customized training to meet your individual needs

Premium Training Services

■ On-the-Job Mentoring

Upon completion of standard product training classes, these advanced on-site, instructor-led classes focus on processes and procedures within your network environment.

■ Customized Training

Tellabs can deliver customized training to meet specific individual needs. Classes are designed to address particular applications and product areas, covering multiple subject areas as required.

Key Benefits

- *Speed Time-To-Market* – With proper training, your staff is better equipped to roll out new revenue-generating services
- *Reduce Costs* – Limit the amount of traffic-affecting support issues that can result from a lack of knowledge of equipment functionality and procedures
- *Optimize Performance* – Skilled engineering staff helps to reduce risk of downtime and maximize network performance
- *Improve Reliability* – Enhance your staff's ability to operate your network from end-to-end
- *Mitigate Risk* – Comprehensive training helps reduce employee turnover and overtime costs and improves employee job satisfaction



Network experts help ensure you incorporate best practices and the right technologies

Tellabs Global Services – The Right Partner. The Right Solutions.

Deployment of Mobile IP solutions requires major investments from service providers who are under intense pressure to reduce spending. Finding the right partner to help solve your business challenges is critical to ensuring a long-term competitive advantage.

To keep focused on your core business, you need a partner who understands your challenges with the experience to quickly and effectively provide the right solution. When you need best-in-class expertise and an independent perspective, Tellabs Global Services is the right partner.

Tellabs Global Services

Tellabs Global Services delivers quantifiable results that help you succeed. Our deep expertise and specialized services are designed to reduce costs, optimize performance, minimize risk, and speed time-to-market. We solve the complex business, technical and operational challenges you face in deploying advanced networks — anywhere in the world.

Tellabs Global Services' reputation for providing a better customer experience is the result of an open and honest approach, the ability to provide an objective viewpoint, and dedication to customer satisfaction.

About Tellabs

Tellabs innovates to deliver the mobile Internet and help our customers succeed. That's why 43 of the top 50 global communications service providers choose our mobile, optical, business and services solutions. We help them get ahead by adding revenue, reducing expenses and optimizing networks.

North America

Tellabs
One Tellabs Center
1415 West Diehl Road
Naperville, IL 60563
U.S.A.
+1 630 798 8800
Fax: +1 630 798 2000

Asia Pacific

Tellabs
3 Anson Road
#14-01 Springleaf Tower
Singapore 079909
Republic of Singapore
+65 6215 6411
Fax: +65 6215 6422

Europe, Middle East & Africa

Tellabs
Abbey Place
24-28 Easton Street
High Wycombe, Bucks
HP11 1NT
United Kingdom
+44 871 574 7000
Fax: +44 871 574 7151

Latin America & Caribbean

Tellabs
1401 N.W. 136th Avenue
Suite 202
Sunrise, FL 33323
U.S.A.
+1 954 839 2800
Fax: +1 954 839 2828